

Drytel 1025 series

The Adixen Small Dry Pumping Groups



 A NEW GENERATION of Alcatel's turbo pumping groups

With the Drytel 1025 series, Adixen has a complete offer of tiny dry pumping group for high vacuum applications. Two versions: Drytel 1025 Standard and new Drytel 1025 Chemical can address most of the needs.

These groups incorporate:

- high reliability membrane pump that are recognized in the market,
- robust Adixen high vacuum pump.

These groups are ideal to ensure a dry and clean pumping system (oil free and particles free).

All states of the art improvement have been incorporated on the different membrane pumps.

Characteristics

- Standard version
- Chemical versions with two purges configurations
- Two pumping capacities are available for primary pump in standard version (one in chemical version)
- Choice among two types of high vacuum pump

Benefits

- Dedicated to non corrosive application
- Dedicated to corrosive gases and some condensable gases
- Better optimization between the cost of the group and performance
- Large inlet pressure range from high flow (400 SCCM at 10 mbar) to low vacuum application (ultimate pressure less than 10^{-8} mbar)
- Just one reference to manage for various country
- Ease of use
- Easily portable when various point of use

- High and low voltage (50/60 Hz)
- One simple on/off switch for the interface
- Low weight

Technical characteristics

Drytel	Unités	1025 Standard				1025 C	
High vacuum pump		MDP 5011		ATH 31+		MDP 5011CP	ATH 31C
Primary pump		AMD1	AMD4	AMD1	AMD4	AMD4C	AMD4C
H.P. pump. speed (60 Hz)	m ³ /hr	1.4	4	1.4	4	4	
L.P. pump. speed							
	N2	l/s	7.5		30	7.5	30
	He	l/s	4		20	4	20
	H2	l/s	3		14	3	14
Ult. pressure	mbar	10 ⁻⁶		<10 ⁻⁸ (*)		<10 ⁻⁵ (**)	<10 ⁻⁸ (**)
Start-up time	min.	2		2		2	
Cooling system		Air		Air		Air	
Max. ambient T°	°C	0 to 40		0 to 40		0 to 40	
Max. P. consump.	VA	< 160	< 310	< 160	< 310	< 310	
Weight	kg (lb)	16 (34)	26 (56)	16 (34)	26 (56)	26 (56)	
Standard flange		63 ISO-K		63 ISO-K		63 ISO-K	
Size							
	L	mm	385	385	385	385	385
	W	mm	305	410	305	410	410
	H	mm	265	265	265	240	265

* : with CFF 63 housing after 48 hours of baking according to Pneuop standard
 ** : with purge

Options and main applications

Options

The following options are also available:

- interface board to remotely monitor the pumping group,
- exhaust connection of the group,

Standard version	Chemical version
Free or DN16 in option	DN16

- an additional neutral gas purge can be integrated on the high pressure stage of the membrane pump in order to:

Standard version	Chemical version
Increase light gases pumping capacity	Decrease concentration of corrosive and condensable gases

The standard accessories such as inlet filters, valves, gauges... are also available.

Examples of applications

Cryo pump regeneration, electronic microscope, mass spectrometer, gauges or valves calibration stands, pumping and refilling of gas bottle, pumping of gas lines...



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